

SECTION 1. Identification of the substance/mixture and of the company/enterprise

1.1. Product identifier

Product name : CLEM

Product code: refer to sales department

1.2. Relevant identified uses of the substance or mixture and uses advised against

Mild detergent

Sectors of use:

Industrial Manufacturing[SU3], Manufacture of food products[SU4]

Product category:

Washing and Cleaning Products (including solvent based products)

Process categories:

Use in batch and other process (syn- thesis) where opportunity for exposure arises[PROC4], Industrial spraying[PROC7], Transfer of substance or mixture (charging and discharging) at dedicated facilities[PROC8B], Application with rollers or brushes [PROC10], Treatment of articles by dipping and pouring [PROC13]

Not recommended uses

Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

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SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

GHS05, GHS07

Hazard Class and Category Code(s):

Skin Irrit. 2, Eye Dam. 1

Hazard statement Code(s):

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.

If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

GHS05 - Danger

Hazard statement Code(s):

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

Supplemental Hazard statement Code(s):

not applicable

Precautionary statements:

Prevention

P280 - Wear protective gloves and eye/face protection.

Response



P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Contains: Benzenesulfonic acid, 4-C10-13-Alkyl derivatives, composed with triethanolamine.

Contains (Reg.EC 648/2004):
15% < 30% anionic surfactants
Preservatives: Methylisothiazolinone, Benzisothiazolinone, Sodium benzoate

2.3. Other hazards

The substance / mixture does NOT contain substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

Do not ingest. Keep out of reach of children.

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrrelevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
Benzenesulfonic Acid, 4-C10-13-Alkyl derivatives, composed with triethanolamine	>= 10 < 25%	Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412 Limits: Skin Corr. 1C, H314 %C >=50; Skin Irrit. 2, H315 1<= %C <50; Acute toxicity M-factor = 1		121617-08-1		
2,2',2"-nitrilotriethanol substance for which there are Community workplace exposure limits	>= 2,5 < 3%			102-71-6	203-049-8	01-2119486 482-31-XXX X
Alcohols, C12-14, etoxylated, sulfates, sodium salts (<2.5 EO)	>= 1 < 2,5%	Skin Corr. 2, H315; Eye Dam. 1, H318; Aquatic Chronic 3, H412 Limits: Eye Dam. 1, H318 %C >=10; Eye Irrit. 2, H319 5< %C <10;		68891-38-3	500-234-8	01-2119488 639-16-XXX X
diethanolamine substance for which there are Community workplace exposure limits	>= 0,1 < 1%	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT RE 2, H373 ATE(mix) oral = 1.600,0 mg/kg	603-071-00-1	111-42-2	203-868-0	01-2119488 930-28-XXX X

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
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SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Ventilate the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Take off immediately contaminated clothing.

Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product.

In case of contact with skin, wash immediately with water.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion:

Not hazardous. It's possible to give activated charcoal in water or medicinal mineral vaseline oil.

4.2. Most important symptoms and effects, both acute and delayed

Contact with eyes causes very severe irritation, including redness and tear. In contact with skin it causes irritation and redness

4.3. Indication of any immediate medical attention and special treatment needed

If skin irritation occurs: Get medical advice/attention.

Immediately call a POISON CENTER or a doctor.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suggested extinguishing media:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing media to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective clothing.

The water spray can be used to protect the people involved in the extinction.
You may also use self-contained breathing apparatus, especially when working in confined and poorly ventilated areas.
Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provide a sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spills with earth or sand.

If the product has entered a watercourse, sewers or has contaminated soil or vegetation, notify the authorities.

Dispose of the waste material in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 Containment:

Rapidly recover the product, wear a mask and protective clothing (for specifications refer to section 8.2. SDS)

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material or suck it.

Prevent it from entering the sewer system.

6.3.2 Cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors

Wear protective gloves and eye/face protection.

At work do not eat or drink.

See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabelled containers.

Keep containers upright and safe by avoiding the possibility of falls or collisions.

Store in a cool and dry place, away from heat sources and direct exposure to sunlight.

7.3. Specific end use(s)

Industrial Manufacturing:

Handle with extreme caution.

Store in a well ventilated place away from heat sources. (7-30°C)

Manufacture of food products:

Handle with care.

Store in a clean, dry, ventilated area away from heat and direct sunlight.

Keep container tightly closed. (7-30°C)

See the annex exposure scenario.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

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Related to contained substances:

2,2',2"-nitrilotriethanol:

Limit value - Eight hours
(ppm)/(mg/m³)

Australia: x/5

Austria: x/5 inhalable aerosol

Belgium: x/5

Canada – Ontario: 0,5/3,1

Canada - Québec: x/5

Denmark: 0,5/3,1

Finland: x/5

Germany (DFG): x/5(1)

Ireland: x/5

New Zealand: x/5

Singapore: x/5

Spain: x/5

Sweden: 0,8/5

Switzerland: x/5 inhalable aerosol

Limit value - Short term

(ppm)/(mg/m³)

Austria: 0,16/10 (1)

Denmark: 1/6,2

Germany (DFG):x/10(1)(2)

Sweden: 1,6(1)/10(1)

Switzerland: x/20 inhalable aerosol

Remarks:

Germany (DFG): (1) Inhalable fraction (2) 15 minutes average value

Sweden: (1) Short term value, 15 minutes average value

diethanolamine:

Limit value - Eight hours
(ppm)/(mg/m³)

Australia: 3/13

Austria: 0,46/2

Belgio: 0,46/2
Canada – Ontario: x/1 (1)
Canada - Québec: 3/13
Denmark: 0,46/2
Finland: 0,46/2
France: 3/15
Germany (DFG): x/1 (1)
Ireland: x/1 (1)
New Zealand: 3/13
Poland: x/9
Singapore: 0,46/2
South Korea: 0,46/2
Spain: 0,46/2
Sweden: 3/5
Switzerland: x/1 respirable aerosol
USA - NIOSH: 3/15
United Kingdom: :[3]/[13]

Limit value - Short term

(ppm)/(mg/m³)

Austria: 0,92/4

Denmark: 0,92/4

Germany (DFG): x/1 (1)(2)

Sweden: 6 (1)/30 (1)

Sweden: 3/5

Switzerland: x/1 rinhalable aerosol

Canada – Ontario: (1) Inhalable aerosol and vapour

Germany (DFG): (1) Inhalable fraction and vapour (2) 15 minutes reference period

Ireland: (1) Inhalable fraction and vapour

Spain: skin

Sweden: (1) Short-term value, 15 minutes average value

United Kingdom: The UK Advisory Committee on Toxic Substances has expressed concern that, for the OELs shown in parentheses, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list

- Substance: Benzenesulfonic Acid, 4-C10-13-Alkyl derivatives, composed with triethanolamine

DNEL

Systemic effects Long term Workers inhalation = 4,1 (mg/m³)

Systemic effects Long term Workers dermal = 5,29 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 1,01 (mg/m³)

Systemic effects Long term Consumers dermal = 1,2 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 0,58 (mg/kg bw/day)

PNEC

Sweet water = 0,268 (mg/l)

sediment Sweet water = 8,1 (mg/kg/sediment)

Sea water = 0,0268 (mg/l)

sediment Sea water = 8,1 (mg/kg/sediment)

intermittent emissions = 0,268 (mg/l)

STP = 7 (mg/l)

ground = 35 (mg/kg ground)

- Substance: 2,2',2"-nitritotrietanolo

DNEL

Systemic effects Long term Workers inhalation = 5 (mg/m³)

Systemic effects Long term Workers dermal = 6,3 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 1,25 (mg/m³)
Systemic effects Long term Consumers dermal = 3,1 (mg/kg bw/day)
Systemic effects Long term Consumers oral = 13 (mg/kg bw/day)
Local effects Long term Workers inhalation = 5 (mg/m³)
Local effects Long term Consumers inhalation = 1,25 (mg/m³)
PNEC
Sweet water = 0,32 (mg/l)
sediment Sweet water = 1,7 (mg/kg/sediment)
Sea water = 0,032 (mg/l)
sediment Sea water = 0,17 (mg/kg/sediment)
intermittent emissions = 5,12 (mg/l)
STP = 10 (mg/l)
ground = 0,151 (mg/kg ground)

- Substance: Alcohols, C12-14, etoxylated, sulfates, sodium salts (<2.5 EO)

DNEL
Systemic effects Long term Workers inhalation = 175 (mg/m³)
Systemic effects Long term Workers dermal = 2750 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 52 (mg/m³)
Systemic effects Long term Consumers dermal = 1650 (mg/kg bw/day)
Systemic effects Long term Consumers oral = 15 (mg/kg bw/day)
Local effects Long term Workers dermal = 0,132 (mg/kg bw/day)
Local effects Long term Consumers dermal = 0,079 (mg/kg bw/day)
PNEC
Sweet water = 0,24 (mg/l)
sediment Sweet water = 0,9168 (mg/kg/sediment)
Sea water = 0,024 (mg/l)
sediment Sea water = 0,09168 (mg/kg/sediment)
intermittent emissions = 0,071 (mg/l)
STP = 10000 (mg/l)
ground = 7,5 (mg/kg ground)

- Substance: diethanolamine

DNEL
Systemic effects Long term Workers dermal = 0,13 (mg/kg bw/day)
Systemic effects Long term Consumers dermal = 0,07 (mg/kg bw/day)
Systemic effects Long term Consumers oral = 0,06 (mg/kg bw/day)
Local effects Long term Workers inhalation = 1 (mg/m³)
Local effects Long term Consumers inhalation = 0,25 (mg/m³)
PNEC
Sweet water = 0,02 (mg/l)
sediment Sweet water = 0,092 (mg/kg/sediment)
Sea water = 0,002 (mg/l)
sediment Sea water = 0,0092 (mg/kg/sediment)
STP = 100 (mg/l)
ground = 0,007 (mg/kg ground)

8.2. Exposure controls

Appropriate engineering controls:

Industrial Manufacturing:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

Manufacture of food products:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

8.2.2 Individual protection measures:

(a) Eye / face protection

Wear protective goggles (EN 166).

(b) Skin protection

(i) Hand protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3).

(ii) Other

During working operation wear protective clothing (generic workwear / antacid, safety shoes or other protective equipment) according to the instructions of the employer.

(c) Respiratory protection

Not needed for normal use.

In case of insufficient ventilation or emergency, use mask with Universal type ABECK filters (EN 405) unless otherwise provided by the employer and / or assessments of environmental investigations hygienistic. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements (89/656/EEC, 245/2016 UE), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Use according to good working practices and avoid to disperse the product into the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	viscous liquid	
Colour	light yellow	
Odour	Not determined because it is considered not relevant for characterization of the product	
Odour threshold	Not determined because it is considered not relevant for characterization of the product	
pH	7,0 ± 0,5 (20°C; Sol. 4%); 7,0 ± 0,5 (20°C; 100%)	
Melting point/freezing point	Not determined because it is considered not relevant for characterization of the product	
Initial boiling point and boiling range	Not determined because it is considered not relevant for characterization of the product	
Flash point	Not determined because it is considered not relevant for characterization of the product	
Evaporation rate	Not determined because it is considered not relevant for characterization of the product	

Physical and chemical properties	Value	Determination method
Flammability (solid, gas)	Not determined because it is considered not relevant for characterization of the product	
Upper/lower flammability or explosive limits	Not determined because it is considered not relevant for characterization of the product	
Vapour pressure	Not determined because it is considered not relevant for characterization of the product	
Vapour density	Not determined because it is considered not relevant for characterization of the product	
Relative density	1,05 ± 0,05 (20°C)	
Solubility	Not determined because it is considered not relevant for characterization of the product	
Water solubility	Not determined because it is considered not relevant for characterization of the product	
Partition coefficient: n-octanol/water	Not determined because it is considered not relevant for characterization of the product	
Auto-ignition temperature	Not determined because it is considered not relevant for characterization of the product	
Decomposition temperature	Not determined because it is considered not relevant for characterization of the product	
Viscosity	300 - 800 cps (20°C)	
Explosive properties	Not determined because it is considered not relevant for characterization of the product	
Oxidising properties	Not determined because it is considered not relevant for characterization of the product	

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Heat and direct light.

10.5. Incompatible materials

It can generate flammable gases in contact with elemental metals, nitrides, inorganic solvents, strong reducing agents.
It can generate toxic gases in contact with inorganic sulphides, strong reducing agents.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

ATE(mix) oral = 179.775,3 mg/kg

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

(a) acute toxicity: Benzenesulfonic Acid, 4-C10-13-Alkyl derivatives, composed with triethanolamine: LD50 rat (mg / kg / 24h bw): 2925

Skin contact - LC50 rat / rabbit (mg / kg / 24h bw):> 2000

Inhalation - LD50 rat (mg / l / 4h): nd

2,2',2''-nitritotrietanol: LD50 rat (mg / kg / 24h bw): 6400

Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): na

Inhalation - LD50 rat (mg / l / 4h):> 2000

Alcohols, C12-14, etoxylated, sulfates, sodium salts (<2.5 EO): Ingestion - LD50 rat (mg / kg / 24h bw):> 2000

Skin contact - LC50 rat / rabbit (mg / kg / 24h bw):> 2000

Inhalation - LD50 rat (mg / l / 4h): nd

diethanolamine: LD50 rat (mg / kg / 24h bw): 1600

Skin contact LC50 rat / rabbit (mg / kg / 24h bw): na

Inhalation - LD50 rat (mg / l / 4h): Inhalation risk test : Inhalation of a highly saturated vapor-air mixture does not represent an acute risk (no mortality within 8 hours).

(b) skin corrosion/irritation: If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.

Benzenesulfonic Acid, 4-C10-13-Alkyl derivatives, composed with triethanolamine: Not corrosive

2,2',2''-nitritotrietanol: Not corrosive

Alcohols, C12-14, etoxylated, sulfates, sodium salts (<2.5 EO): Not corrosive

diethanolamine: Not corrosive

Benzenesulfonic Acid, 4-C10-13-Alkyl derivatives, composed with triethanolamine: Not irritating

2,2',2''-nitritotrietanol: Not irritating

Alcohols, C12-14, etoxylated, sulfates, sodium salts (<2.5 EO): Irritating

diethanolamine: Irritating

(c) serious eye damage/irritation: If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

Benzenesulfonic Acid, 4-C10-13-Alkyl derivatives, composed with triethanolamine: Corrosive

2,2',2''-nitritotrietanol: Not corrosive

Alcohols, C12-14, etoxylated, sulfates, sodium salts (<2.5 EO): Corrosive

diethanolamine: Corrosive

Benzenesulfonic Acid, 4-C10-13-Alkyl derivatives, composed with triethanolamine: Irritating

2,2',2''-nitritotrietanol: Not irritating

Alcohols, C12-14, etoxylated, sulfates, sodium salts (<2.5 EO): Irritating

diethanolamine: Irritating

(d) respiratory or skin sensitisation: Benzenesulfonic Acid, 4-C10-13-Alkyl derivatives, composed with triethanolamine: Not sensitizing

2,2',2''-nitritotrietanol: Not sensitizing

Alcohols, C12-14, etoxylated, sulfates, sodium salts (<2.5 EO): Not sensitizing

diethanolamine: Not sensitizing
 (e) germ cell mutagenicity: Benzenesulfonic Acid, 4-C10-13-Alkyl derivatives, composed with triethanolamine: Not mutagenic
 2,2',2''-nitritotrietanol: Not mutagenic
 Alcohols, C12-14, etoxylated, sulfates, sodium salts (<2.5 EO): Not mutagenic
 diethanolamine: Not mutagenic
 (f) carcinogenicity: Benzenesulfonic Acid, 4-C10-13-Alkyl derivatives, composed with triethanolamine: Scientifically unjustified study
 2,2',2''-nitritotrietanol: Not available
 Alcohols, C12-14, etoxylated, sulfates, sodium salts (<2.5 EO): Not carcinogenic
 diethanolamine: Not carcinogenic
 (g) eproductivotoxicity: Benzenesulfonic Acid, 4-C10-13-Alkyl derivatives, composed with triethanolamine: Not toxic for reproduction
 2,2',2''-nitritotrietanol: Not toxic
 Alcohols, C12-14, etoxylated, sulfates, sodium salts (<2.5 EO): Non-toxic for reproduction
 diethanolamine: Not toxic
 (h) specific target organ toxicity (STOT) single exposure: Benzenesulfonic Acid, 4-C10-13-Alkyl derivatives, composed with triethanolamine: Not available
 2,2',2''-nitritotrietanol: Not toxic
 Alcohols, C12-14, etoxylated, sulfates, sodium salts (<2.5 EO): Non-toxic for single exposure
 diethanolamine: Not toxic
 (i) specific target organ toxicity (STOT) repeated exposure: Benzenesulfonic Acid, 4-C10-13-Alkyl derivatives, composed with triethanolamine: Not available
 2,2',2''-nitritotrietanol: Not toxic
 Alcohols, C12-14, etoxylated, sulfates, sodium salts (<2.5 EO): Non-toxic for repeated exposure
 diethanolamine: Toxic for repeated exposure to liver, blood and kidneys with oral route
 (j) aspiration hazard: Benzenesulfonic Acid, 4-C10-13-Alkyl derivatives, composed with triethanolamine: Not available
 2,2',2''-nitritotrietanol: Not available
 Alcohols, C12-14, etoxylated, sulfates, sodium salts (<2.5 EO): Not available
 diethanolamine: Not available

Health Hazards:

Eye contact: Accidental contact of product with eyes may cause irritation.

Skin Contact: Product is not an irritant. Prolonged or repeated contact may defeat and irritate the skin and cause dermatitis in some cases.

Ingestion: The ingested product may cause irritation of the mucous membranes of the throat and digestive system leading to digestive symptoms and abnormal bowel disorders.

Inhalation: Prolonged exposure to vapours or mists of product may cause respiratory irritation.

11.2. Information on other hazards

No data available.

SECTION 12. Ecological information

12.1. Toxicity

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Related to contained substances:

Benzenesulfonic Acid, 4-C10-13-Alkyl derivatives, composed with triethanolamine:

Acute tests were carried out on all three trophic levels to examine the acute aquatic toxicity of LAS-TEA. In addition, a chronic test on aquatic invertebrates and algae is available.

Acute toxicity - fish LC50 (mg/l/96h): 5.7 (Brachydanio rerio)

Acute toxicity - EC50 crustaceans (mg/l/48h): 2.4 (Daphnia magna)

Acute toxicity algae ErC50 (mg/l/72-96h): 29 based on cell density.

Chronic toxicity - NOEC fish (mg/l): the 196 day NOEC level was 0.63 mg/L. The LOEC was 1.2 mg/L.

Chronic toxicity - NOEC crustaceans (mg/l): the 21 day NOEC of C11.8 LAS to *Daphnia magna* was 1.18 mg/l
Chronic noec algae toxicity (mg/l): the 96 - hr NOEC was 0.5 mg/l. The 96 - hr LOEC was 1 mg/L. The 96 -hr EC50 was 29.0 mg/L based on cell density. Normalized to C11.6 LAS, the value is 0.58 mg/L for the NOEC (method: van de Plassche et al., 1999).

Depending on the outcome of the chemical safety assessment, it may be necessary to propose long-term tests on fish, but sufficient data are available for LAS-Na and TEA, which should provide adequate toxicity data for the long-term toxicity of fish (read -Affross)

Based on the available tests, LAS-TEA does not need to be classified as strongly harmful to aquatic organisms.

The toxicity of LAS-TEA to aquatic organisms can be described by the toxicity of LAS-Na and TEA according to the read-across declaration in which complete dissociation of LAS-TEA in water is supported.
A number of aquatic toxicity studies are available for LAS-Na. The EC50 and NOEC are in the same order of magnitude as those found for LAS-TEA but slightly lower. EC50 and NOEC found in TEA toxicity tests are higher. Therefore, a precautionary approach is adopted for the derivation of PNECaqua. The large body of long-term ecotoxicity data for LAS-Na results in a conservative estimate of PNECaqua for the analogous LAS-TEA analogue.

2,2',2''-nitrilotriethanol:

Acute toxicity - LC50 fish (mg / l / 96h): 11800

Acute toxicity - crustaceans EC50 (mg / l / 48h): 609.88

Acute algae toxicity ErC50 (mg / l / 72-96h): 512

Chronic toxicity - NOEC fish (mg / L):

Chronic Toxicity - NOEC crustaceans (mg / l):

Chronic NOE toxicity (mg / l):

Alcohols, C12-14, etoxylated, sulfates, sodium salts (<2.5 EO):

CL50 *Brachydanio rerio* (zebra or zebra fish):> 1 - 10 mg / l

NOEC (28 d) *Oncorhynchus mykiss* (rainbow trout): 0.14 mg / l;

EC50 (48 h) *Daphnia magna* (Water flea):> 1 - 10 mg / l

NOEC (21 d) *Daphnia magna* (Water flea): 0.27 mg / l;

NOEC (72h) *Desmodesmus subspicatus* (green algae): 0.93 mg / l

EC50 (72 h) *Desmodesmus subspicatus* (green algae):> 10 - 100 mg / l

EC10 *Pseudomonas putida*:> 10,000 mg / l;

NOEC (56d) *Eisenia fetida* (earthworms): 750 mg / kg

C(E)L50 (mg/l) = 1

NOEC (mg/l) = 0,14

diethanolamine:

Acute toxicity - LC50 (mg / l / 96h): 1,460 -i *Pimephales promelas* (static)

Acute toxicity - EC50 crust (mg / l / 48h): 55 - *Daphnia magna*

Acute algae ErC50 (mg / l / 72-96h) : Mg / l: NO (mg / l): 2.2 (growth rate) - *Pseudokirchneriella subcapitata*

Chronic toxicity - NOEC fish (mg / l): na

Chronic toxicity - NOEC (mg / l) crustaceans:

C(E)L50 (mg/l) = 1480

Use according to good working practices and avoid to disperse the product into the environment.

12.2. Persistence and degradability

=====

Related to contained substances:

Benzenesulfonic Acid, 4-C10-13-Alkyl derivatives, composed with triethanolamine:

LAS-TEA is readily biodegradable. There are no studies on the degradation of LAS-TEA in aquatic sediments or soil. In accordance with column 2 of REACH Annex IX, it is not necessary to conduct simulation tests of water and sediment and soil biodegradation tests.

2,2',2''-nitrilotriethanol:

CO2 evolution: 100% after 5 days DOC removal: 96% after 19 days easily biodegradable "

Alcohols, C12-14, etoxylated, sulfates, sodium salts (<2.5 EO):
Rapidly biodegradable .; > 70%; 28 d; aerobic; OECD TG 301 A

diethanolamine:

BOD consumption: 93% after 28 days - easily biodegradable

12.3. Bioaccumulative potential

=====

Related to contained substances:

Benzenesulfonic Acid, 4-C10-13-Alkyl derivatives, composed with triethanolamine:

A bioaccumulation study for LAS-TEA is not available. The bioaccumulation endpoint was addressed with data for LAS-Na and TEA (see read-across declaration).

The experimentally determined BCF of LAS-Na and TEA is 2 - 1000 L/kg (depending on the length of the alkyl chain) and 3.9, respectively. In the las-na bioaccumulation study it was shown that BCF increased with the length of the alkyl chain from C10 to C13. The BCF of LAS-TEA will be well below 1000 L/kg, since the length of the C chain of the CONSTITUENTS of LAS-TEA is more or less evenly distributed on the constituents C10, C11, C12 and C13, with the most abundant components C11 and C12. It was also shown in the article by Tolls et al. (1997) that BCF decreases with the p-sulphenyl group positioned farther from the terminal carbon of the alkyl chain, which also supports a lower BCF of LAS-TEA, based on its composition with the p-sulfophenyl group at position C4 mainly. In fact, only for C13-LAS with the p-sulfophenyl part placed in position C2 was observed a BCF above 500 L/kg, so the BCF for LAS-TEA will be less than 500 L/kg.

LAS-TEA also has a Kow log of 1.5, indicating low bioaccumulation potential, and environmental concentrations are reduced by environmental processes such as biodegradation and absorption.

It can be concluded that the bioconcentration potential of LAS-TEA is low.

2,2',2"-nitrilotriethanol:

Bioaccumulative potential bioaccumulation potential (LogKow); -1,94 Bioaccumulation Potential (BCF): <0.4

Alcohols, C12-14, etoxylated, sulfates, sodium salts (<2.5 EO):

Not bioaccumulative

diethanolamine:

Based on the n-octanol / water partition coefficient (log Pow), no accumulation is expected in the organisms.

12.4. Mobility in soil

=====

Related to contained substances:

Benzenesulfonic Acid, 4-C10-13-Alkyl derivatives, composed with triethanolamine:

Henry Law constant (H): $7.19 \cdot 10^{-9}$ Pa·m³/mol

According to REACH, Annex VIII 9.3.1, there is no need to carry out a study on adsorption/desorption behaviour if the substance and its degradation products decompose rapidly. Therefore, data on the adsorption/desorption behavior of LAS-TEA are not required.

Assuming the complete and rapid dissociation of LAS-TEA in aqueous environments, data on the adsorption/desorption behavior of LAS-Na and TEA can be used to describe the adsorption and desorption behavior of LAS-TEA. Both LAS-Na and TEA quickly decompose as well, and therefore no data on the adsorption/desorption behavior of LAS-Na and TEA are required, however the following information is available:

TEA: due to the calculated Koc of 17 and its rapid degradation, tea adsorption is not expected in the solid soil phase

(e.g. clay).

Due to Henrys' legal constant, TEA does not evaporate from the surface of the water.

As far as environmental distribution (Mackay I level) is concerned, over time, tea will distribute preferentially in water.

2,2',2"-nitrilotriethanol:

Constant of Henry Law (H): $7.19 \cdot 10^{-9} \text{ Pa} \cdot \text{m}^3 / \text{mol}$ Log Koc = 1.24 "

Alcohols, C12-14, etoxylated, sulfates, sodium salts (<2.5 EO):

Very mobile in soils Adsorption / Soil; Koc: 2.2

diethanolamine:

The substance does not evaporate in the atmosphere from the surface of the water. Constant Henry Law (H): 0.000004 $\text{Pa} \cdot \text{m}^3 / \text{mol}$ log Koc = -1.14 Solid phase solid phase absorption is not foreseeable

12.5. Results of PBT and vPvB assessment

No PBT/vPvB ingredient is present

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No adverse effects

Regulation (EC) No 2006/907 - 2004/648

The (l) surfactant (s) content (s) in this preparation complies (comply) with (i) the biodegradability criteria as laid down in Regulation CE/648/2004 on detergents. All data are held at the disposal of the competent authorities of Member States and will be provided, at their direct request or at the request of a detergent manufacturer, to those authorities.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Operate according to local or national regulations

SECTION 14. Transport information

14.1. UN number or ID number

Not included in the field of application of regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk is not foreseen

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions relating to the product or contained substances (All. XVII Reg. EC 1907/2006): not applicable
Substances in Candidate List (art. 59 Reg. EC 1907/2006): the product does not contain SVHC
Substances subject to authorisation (Ann. XIV Reg. CEC 1907/2006): the product does not contain SVHC
Reg. EC 648/04: see 2.2
Reg. (EU) n. 1169/2011: see 2.2
Reg (UE) 528/2012: see.to 2.2

REGULATION (EU) No 1357/2014 - waste:
HP4 - Irritant — skin irritation and eye damage

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information

16.1. Other information

Points modified compared to previous release: 2.2. Label elements

Description of hazard statements set out in paragraph 3

H314 = Causes severe skin burns and eye damage.

H318 = Causes serious eye damage.

H412 = Harmful to aquatic life with long lasting effects.

H315 = Causes skin irritation.

H302 = Harmful if swallowed.

H373 = May cause damage to organs through prolonged or repeated exposure .

Classification based on data of all mixture components

Main normative references:

Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.
Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.
Regulation (EC) n. 648 of 31/03/04 (on detergents) et seq.
Regulation (UE) n. 1169/2011 (on the provision of food information to consumers)
Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.
Regulation (UE) 528/2012 (Biocides) et seq.

Procedure used to classify under CLP mixture (Reg. EC 1272/2008): Calculation Method

Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

n.a.: not applicable

n.d.: not available

ADR: Accord européen relative au transport International des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimati

BFC: BioconCentration Factor

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstract Service number

CAP: Centre AntiPoison

CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances)

CL50/LC50: Lethal Concentration 50

DL50/LD50: Lethal Dose 50

COD: Chemical Oxygen Demand

DNEL: Derived No Effect Level

EC50: half maximal Effective Concentration

ERC: Enviroment Release Classes

EU/UE: European Union

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods code

Kow: Octanol water partition coefficient

NOEC: No Observed Effect Concentration

OEL: Occupational Exposure Limit

PBT: Persistent Bioaccumulative and Toxic

PC: Product Categories

PNEC: Predicted No Effect Concentration

PROC: Process Categories

RID: Règlement concernant le transport International ferroviaire des marchandises dangereuses (Regulations concerning International rail transport of dangerous goods)

STOT: Target Organ Systemic Toxicity

STOT (RE): Repeated Exposure

STOT (SE): Single Exposure

STP: Sewage Treatment Plants

SU: Sector of Use

SVCH: Substance of Very High Concern

TLV: Threshold Limit Value

vPvB: Very Persistent Very Bioaccumulative

References and Sources:

- ECHA Registered Substances:
<https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>
- SDS supplier

-
- GESTIS DNEL Database: <http://www.dguv.de/ifa/gestis/gestis-dnel-datenbank/index-2.jsp>
 - GESTIS International Limit Value: <http://limitvalue.ifa.dguv.de>

This msds was made in good faith by AEB technical Office on the basis of the information available at the date of the last revision. The person in charge must regularly inform the employees about the specific risks they encounter when using this substance/product. The information contained here relate only to the substance/the preparation indicated and may not apply if the product is used improperly or in combination with others. Nothing contained herein shall be construed as a guarantee, either express or implied. It is the responsibility of the user to ensure the opportunities and completeness of the information contained herein for their own particular use.

*** this tab annuls and replaces any previous edition. (IIXX)

Changes to the previous edition: label elements, updating to reg. (UE) 878/2020, exposure scenario updating

SUMI**Safe Use of Mixtures Information****AISE_SUMI_IS_4_1***Version 1.1, August 2018****Industrial uses; Automated task; Semi-automated task; Dedicated equipment***

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered

The SUMI applies to industrial uses where products are used in closed process where opportunity for exposure arises. This Safe Use Information is based on the **AISE_SWED_IS_4_1**.


Operational Conditions

Maximum duration	480 minutes per day.
Range of application / Process conditions	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	See section 8 of the SDS of this product for specifications.
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters.
	If appropriate AISE SPERC 8a.1.a.v2 may apply: wide dispersive use resulting in release to municipal sewage treatment plant.

Additional good practice advice

Don't eat or drink. Don't smoke. Don't use in proximity of open flame.	
Wash hands after use. Avoid contact with damaged skin. Do not mix with other products.	
Spillage instructions	Dilute with fresh water and mop up.
Hygiene practices	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

Disclaimer

This is a document for communicating generic conditions of safe use of a product. It is the responsibility of the formulator to link this SUMI to the SDS of a specific product that he is selling.

If a SUMI (or associated SWED) code is mentioned in the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the SUMI is safe. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.

Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.

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SUMI**Safe Use of Mixtures Information****AISE_SUMI_IS_7_5***Version 1.1, August 2018****Industrial spraying; Automated task; Open system; Long term***

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered

The SUMI applies to industrial spraying products. This Safe Use Information is based on the AISE_SWED_IS_7_5.


Operational Conditions

Maximum duration	480 minutes per day.
Range of application / Process conditions	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	See section 8 of the SDS of this product for specifications.
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters.
	If appropriate AISE SPERC 8a.1.a.v2 may apply: wide dispersive use resulting in release to municipal sewage treatment plant.

Additional good practice advice

Don't eat or drink. Don't smoke. Don't use in proximity of open flame.	
Wash hands after use. Avoid contact with damaged skin. Do not mix with other products.	
Spillage instructions	Dilute with fresh water and mop up.
Hygiene practices	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

Disclaimer

This is a document for communicating generic conditions of safe use of a product. It is the responsibility of the formulator to link this SUMI to the SDS of a specific product that he is selling.

If a SUMI (or associated SWED) code is mentioned in the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the SUMI is safe. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.

Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.

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SUMI**Safe Use of Mixtures Information****AISE_SUMI_IS_8b_1***Version 1.1, August 2018****Transfer and dilution of concentrated product by using dedicated dosing system***

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.


General description of the process covered

This SUMI applies to industrial uses where products are transferred to or diluted in a dedicated dosing system. This Safe Use Information is based on the **AISE_SWED_IS_8b_1_L** and **AISE_SWED_IS_8b_1_S**


Operational Conditions

Maximum duration	60 minutes per day.
Range of application / Process conditions	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	Wear suitable gloves. See section 8 of the SDS of this product for specifications. 
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters.
	If appropriate AISE SPERC 8a.1.a.v2 may apply: wide dispersive use resulting in release to municipal sewage treatment plant.

Additional good practice advice

Don't eat or drink. Don't smoke. Don't use in proximity of open flame.	
Wash hands after use. Avoid contact with damaged skin. Do not mix with other products.	
Spillage instructions	Dilute with fresh water and mop up.
Hygiene practices	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

Disclaimer

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Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.

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SUMI**Safe Use of Mixtures Information****AISE_SUMI_IS_10_2***Version 1.1, August 2018****Brushing; Automated task***

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered

This SUMI applies to industrial uses where the product is used in an automated brushing task. This Safe Use Information is based on the **AISE_SWED_IS_10_2**.

Operational Conditions

Maximum duration	480 minutes per day.
Range of application / Process conditions	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	See section 8 of the SDS of this product for specifications.
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters.
	If appropriate AISE SPERC 8a.1.a.v2 may apply: wide dispersive use resulting in release to municipal sewage treatment plant.

Additional good practice advice

Don't eat or drink. Don't smoke. Don't use in proximity of open flame.	
Wash hands after use. Avoid contact with damaged skin. Do not mix with other products.	
Spillage instructions	Dilute with fresh water and mop up.
Hygiene practices	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

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Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.

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SUMI**Safe Use of Mixtures Information****AISE_SUMI_IS_13_4***Version 1.1, August 2018****Industrial uses; Treatment of articles by dipping or pouring***

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered

This SUMI applies to industrial uses where articles are treated by dipping or pouring. This Safe Use Information is based on the **AISE_SWED_IS_13_4**.


Operational Conditions

Maximum duration	480 minutes per day.
Range of application / Process conditions	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	See section 8 of the SDS of this product for specifications.
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters.
	If appropriate AISE SPERC 8a.1.a.v2 may apply: wide dispersive use resulting in release to municipal sewage treatment plant.

Additional good practice advice

Don't eat or drink. Don't smoke. Don't use in proximity of open flame.	
Wash hands after use. Avoid contact with damaged skin. Do not mix with other products.	
Spillage instructions	Dilute with fresh water and mop up.
Hygiene practices	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

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WORKING ISTRUCTION TABLE



This tab provides instructions for appropriate and safe use of products and proper management of emergency situations for cleaning staff/users.

Attached to MSDS rel#7 del 08/31/2021

Use description	Use in batch and other process (synthesis) where opportunity for exposure arises [PROC4]; Industrial spraying [PROC7]; Transfer of substance or mixture (charging and discharging) at dedicated facilities [PROC8b]; Application with rollers or brushes [PROC10]; Treatment of articles by dipping and pouring [PROC13]
Product name	CLEM
Classification of the product (100%)	H315 - Causes skin irritation. H318 - Causes serious eye damage.
Classification of the diluted product (maximum use concentration)	At maximux concentration of use (4%) the product is classified: EUH210: Safety data sheet available on request.
Handling of the product (100%)	Avoid contact and inhalation of vapors Wear protective gloves/protective clothing/eye protection/face protection. At work do not eat or drink.
Handling of the diluted product	At work do not eat or drink.
DPI required concentrated product (racking, concentrated use, spillage...)	Chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3), safety glasses (EN 166).
Diluted product	DPI not required for intended uses

In case of emergency (accidents involving exposure to the product)	Immediately inform the customer. Immediately inform the employer. Contact Poisons Centres tel. number in 1.4 section of the MSDS
Accidental release large quantities measures: concentrated product	Wear gloves, glasses and protective clothing (for specifications refer to section 8.2. SDS) Possibly absorb it with inert material or suck it. After wiping up, wash with water the area and materials involved
Diluted product	Wash with water the area and materials involved
Storage of the product	Keep in original container closed tightly. Do not store in open or unlabelled containers. Keep containers upright and safe by avoiding the possibility of falls or collisions. Store in a cool and dry place, away from heat sources and direct exposure to sunlight.
In case of accidents, emergency or fire	Immediately inform the customer. Follow company emergency instruction.